

# CAP 6671: Agent Competition

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Please submit this homework to **gitar@eecs.ucf.edu**. This writeup should be completed without assistance and be between 4-6 pages. Please correctly cite any sources that you use. This assignment is graded on a 10 point scale.

In the assignment, you will be designing an agent to compete in one of the autonomous agent competitions. If you select a different competition than one of the ones we discussed in class, please send me email with the reference to the competition to get approval before you start on your project by Feb 8th.

Your writeup will be evaluated on: 1) writeup quality and clarity 2) detail of research idea 3) completeness of reference.

Your writeup should contain the following sections:

- Summary of the competition rules, highlighting the most relevant aspects to your agent design.
- Related work section describing other winning strategies that people have used in the competition.
- Description of your approach along with some type of schematic showing how the different parts of your agent work together.
- An in-depth description of one part of your method. For example, if you choose to implement a trading agent, you could discuss your bidding method. Even if you decide to use heuristics to guide your search, discuss how you could use AI techniques such as planning or machine learning.

- As part of your in-depth description, you can opt to implement some part of your agent. If you do this, please include screenshots or output from your agent and code for your agent in an appendix. You can use any implementation work that you do as part of your final project, if you choose.

Note: implementation of your agent is optional but recommended if you choose one of the newer agent competitions that do not have significant related work.